

REMARKS

The claim is claim 46. Claim 47 has been canceled without prejudice or disclaimer of subject matter.

As noted in the Preliminary Amendment filed May 15, 2001 Applicants have substantially copied claim 46 from Ma's U.S. Patent No. 6,063,828. A support table for claim 46 and a claim comparison for claim 46 and Ma's claim 1, are attached hereto. Also enclosed for the Examiner's convenience is an Initial Interference Memorandum

REQUEST FOR INTERFERENCE

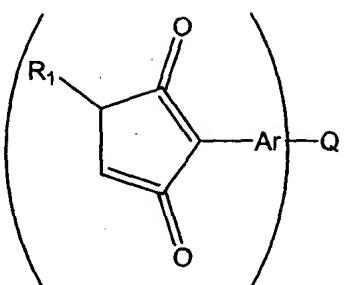
A. The Count

Pursuant to 37 C.F.R. §1.607, Applicants respectfully request that an interference be declared involving claim 46 of the present application and claims 1-33 of U.S. Patent No. 6,063,828 to Ma et al.

COUNT 1

A curable composition comprising a maleimide compound, and a curing initiator selected from the group consisting of a free-radical initiator, a photoinitiator, and a combination of those,

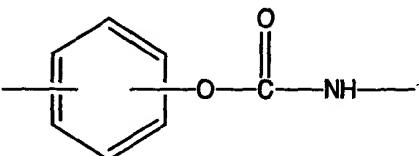
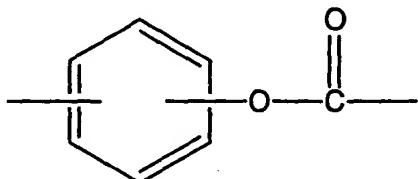
the maleimide compound having the formula:



in which n is 1 to 6,

a) R<sup>1</sup> is H or an alkyl group having 1 to 5 carbon atoms;

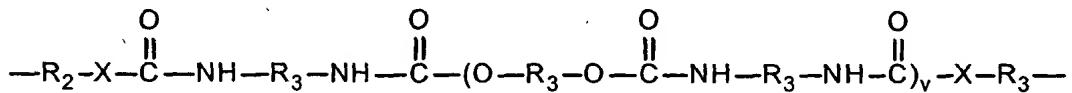
b) Ar is an aromatic group selected from the aromatic groups having the structures:



and

(c) Q is a linear or branched chain alkyl, alkyloxy, alkyl amine, alkyl sulfide, alkylene, alkyleneoxy, alkylene amine, alkylene sulfide, aryl, aryloxy, or aryl sulfide species having up to about 100 atoms in the chain, which may contain saturated or unsaturated cyclic or heterocyclic substituents pendant form the chain or as part of the chain, and in which any heteroatom present may or may not be directly attached to Ar; or

Q is a urethane having the structure:



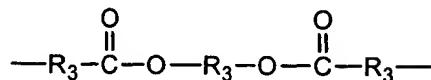
in which each R<sub>2</sub> independently is an alkyl, aryl, or arylalkyl group having 1 to 18 carbon atoms;

R<sub>3</sub> is an alkyl or alkyloxy chain having up to 100 atoms in the chain, which chain may contain aryl substituents;

X is O, S, N, or P; and

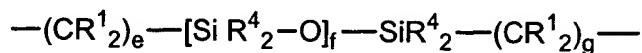
v is 0 to 50;

Q is an ester having the structure:



in which R<sub>3</sub> is an alkyl or alkyloxy chain having up to 100 atoms in the chain, which chain may contain aryl substituents; or

Q is a siloxane having the structure:



in which the R<sub>1</sub> substituent independently for each position is H or an alkyl group having 1 to 5 carbon atoms, and

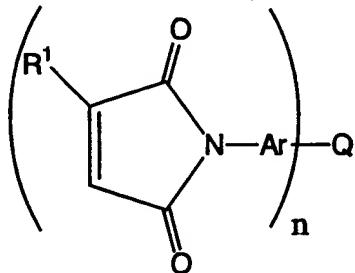
the R<sub>4</sub> substituent independently for each position is an alkyl group having 1 to 5 carbon atoms or an aryl group, and

e and g are independently 1 to 10, and

f is 1 to 50;

or

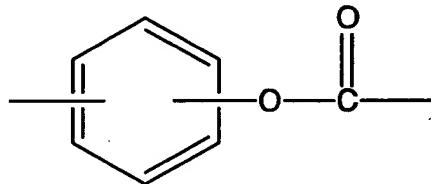
A curable composition comprising a maleimide compound, and a curing initiator selected from the group consisting of a free-radical initiator, a photoinitiator, and a combination of those, the maleimide compound having the formula:



wherein n is 1 to 3,

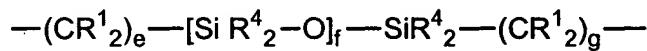
R<sup>1</sup> is H or an alkyl group having 1 to 5 carbon atoms;

Ar is an aromatic group having the structure:



Q is a linear or branched chain alkyl, alkyloxy, alkylene, or alkyleneoxy, species having up to about 100 atoms in the chain, which may contain saturated or unsaturated cyclic or heterocyclic substituents pendant from the chain or as part of the chain and in which any heteroatom present may or may not be directly attached to Ar;

Q is a siloxane having the structure:



wherein:

$R_1$  substituent independently for each position is H or an alkyl group having 1 to 5 carbon atoms, and

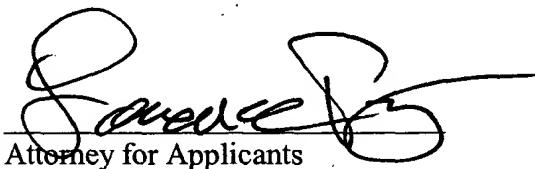
the  $R_4$  substituent independently for each position is an alkyl group having 1 to 5 carbon atoms or an aryl group, and

e and g are independently 1 to 10, and

f is 1 to 50.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our below listed address.

Respectfully submitted,



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**COMPARISON CHART BETWEEN  
MA ET AL. (U.S. PATENT NO. 6,063,828)  
AND LOCTITE APPLN. NO. 09/580,026**

| <b>Ma et al.<br/>U.S. Patent No. 6,063,828</b>                                                                                       | <b>Appln. No. 09/580,026</b>                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 1) A curable composition comprising a maleimide compound,                                                                            | 46) A curable composition comprising a maleimide compound,                                                                           |
| and a curing initiator selected from the group consisting of a free-radical initiator, a photoinitiator, and a combination of those, | and a curing initiator selected from the group consisting of a free-radical initiator, a photoinitiator, and a combination of those, |
| the maleimide compound having the formula:                                                                                           | the maleimide compound having the formula:                                                                                           |
|                                                                                                                                      |                                                                                                                                      |
| in which n is 1 to 6,                                                                                                                | wherein n is 1 to 3,                                                                                                                 |
| a) R¹ is H or an alkyl group having 1 to 5 carbon atoms;                                                                             | R¹ is H or an alkyl group having 1 to 5 carbon atoms;                                                                                |
| b) Ar is an aromatic group selected from the aromatic groups having the structures:                                                  | Ar is an aromatic group having the structure:                                                                                        |
|                                                                                                                                      |                                                                                                                                      |
| <br>and                                                                                                                              |                                                                                                                                      |

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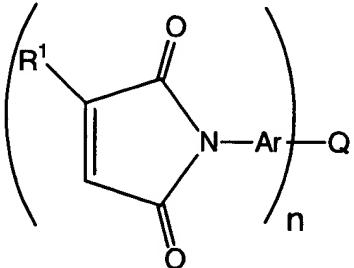
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (c) Q is a linear or branched chain <u>alkyl</u> , <u>alkyloxy</u> , <u>alkyl amine</u> , <u>alkyl sulfide</u> , <u>alkylene</u> , <u>alkyleneoxy</u> , <u>alkylene amine</u> , <u>alkylene sulfide</u> , <u>aryl</u> , <u>aryloxy</u> , or <u>aryl sulfide</u> species having up to about 100 atoms in the chain, which may contain saturated or unsaturated cyclic or heterocyclic substituents pendant from the chain or as part of the chain, and in which any heteroatom present may or may not be directly attached to Ar; or | Q is a linear or branched chain alkyl, alkyloxy, alkylene, or alkyleneoxy, species having up to about 100 atoms in the chain, which may contain saturated or unsaturated cyclic or heterocyclic substituents pendant from the chain or as part of the chain and in which any heteroatom present may or may not be directly attached to Ar; |
| Q is a urethane having the structure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                            |
| $\begin{array}{c} \text{O} \\    \\ -\text{R}_2-\text{X}-\text{C}-\text{NH}-\text{R}_3-\text{NH}-\text{C}-\text{(O}-\text{R}_3-\text{O}-\text{C}-\text{NH}-\text{R}_3-\text{NH}-\text{C})_v-\text{X}-\text{R}_3-\end{array}$                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                            |
| in which each R <sub>2</sub> independently is an alkyl, aryl, or arylalkyl group having 1 to 18 carbon atoms;                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                            |
| R <sub>3</sub> is an alkyl or alkyloxy chain having up to 100 atoms in the chain, which chain may contain aryl substituents;                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                            |
| X is O, S, N, or P; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                            |
| v is 0 to 50;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                            |
| Q is an ester having the structure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                            |
| $\begin{array}{c} \text{O} \\    \\ -\text{R}_3-\text{C}-\text{O}-\text{R}_3-\text{O}-\text{C}-\text{R}_3-\end{array}$                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                            |
| in which R <sub>3</sub> is an alkyl or alkyloxy chain having up to 100 atoms in the chain, which chain may contain aryl substituents; or                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                            |
| Q is a siloxane having the structure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Q is a siloxane having the structure:                                                                                                                                                                                                                                                                                                      |
| $-(\text{CR}^1_2)_e-\text{[Si R}^4_2-\text{O}]_f-\text{SiR}^4_2-(\text{CR}^1_2)_g-$                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $-(\text{CR}^1_2)_e-\text{[Si R}^4_2-\text{O}]_f-\text{SiR}^4_2-(\text{CR}^1_2)_g-$                                                                                                                                                                                                                                                        |
| in which the R <sub>1</sub> substituent independently for each position is H or an alkyl group having 1 to 5 carbon atoms, and                                                                                                                                                                                                                                                                                                                                                                                                      | wherein:<br>R <sub>1</sub> substituent independently for each position is H or an alkyl group having 1 to 5 carbon atoms, and                                                                                                                                                                                                              |

|                                                                                                                                   |                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| the R <sub>4</sub> substituent independently for each position is an alkyl group having 1 to 5 carbon atoms or an aryl group, and | the R <sub>4</sub> substituent independently for each position is an alkyl group having 1 to 5 carbon atoms or an aryl group, and |
| e and g are independently 1 to 10, and                                                                                            | e and g are independently 1 to 10, and                                                                                            |
| f is 1 to 50.                                                                                                                     | f is 1 to 50.                                                                                                                     |
|                                                                                                                                   |                                                                                                                                   |
|                                                                                                                                   |                                                                                                                                   |
|                                                                                                                                   |                                                                                                                                   |

**SUPPORT TABLE FOR LOCTITE**  
**PATENT APPL. NO. 09/580,026 CLAIM 46**  
**COPIED FROM U.S. PATENT NO. 6,063,828 (MA ET AL)**

| <b>ELEMENT</b>                                                                                                                                                                                                                                   | <b>Appln. No.<br/>09/580,026</b>                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 46. A curable composition comprising a maleimide compound,<br>and a curing initiator selected from the group consisting of a free-radical initiator, a photoinitiator, and a combination of those,<br>the maleimide compound having the formula: | Page 1, line 19;<br>Page 4, line 23;<br>Page 16, lines 24-<br>Page 17, lines 18.<br>Page 4, lines 22-<br>30 |
|                                                                                                                                                                | Page 4, lines 22-<br>30                                                                                     |
| wherein:<br>n is 1 to 3,                                                                                                                                                                                                                         | Page 4, lines 25<br>to Page 5, lines 1-<br>2                                                                |
| R <sup>1</sup> is H or an alkyl group having 1 to 5 carbon atoms;                                                                                                                                                                                | Page 5, lines 3-4                                                                                           |
| Ar is an aromatic group having the structure:                                                                                                                                                                                                    | Page 5, lines 10-<br>25                                                                                     |
|                                                                                                                                                                                                                                                  | Page 5, line 15                                                                                             |

|                                                                                                                                                                                                                                                                                                                                            |                      |
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| Q is a linear or branched chain alkyl, alkyloxy, alkylene, or alkyleneoxy, species having up to about 100 atoms in the chain, which may contain saturated or unsaturated cyclic or heterocyclic substituents pendant from the chain or as part of the chain and in which any heteroatom present may or may not be directly attached to Ar; | Page 5, lines 26-31  |
| Q is a siloxane having the structure                                                                                                                                                                                                                                                                                                       | Page 12, lines 8-9   |
| $-(CR^1_2)_e-[SiR^4_2-O]_f-SiR^4_2-(CR^1_2)_g-$                                                                                                                                                                                                                                                                                            | Page 12, lines 10-14 |
| wherein:<br>the R <sup>1</sup> substituent independently for each position is H or alkyl having 1 to 5 carbon atoms,                                                                                                                                                                                                                       | Page 5, lines 3-4    |
| the R <sup>4</sup> substituent independently for each position is alkyl having 1 to 5 carbon atoms or aryl,                                                                                                                                                                                                                                | Page 8, lines 13-19  |
| e and g are independently 1 to 10, and                                                                                                                                                                                                                                                                                                     | Page 8, lines 13-19  |
| f is 1-50.                                                                                                                                                                                                                                                                                                                                 | Page 8, lines 13-19  |